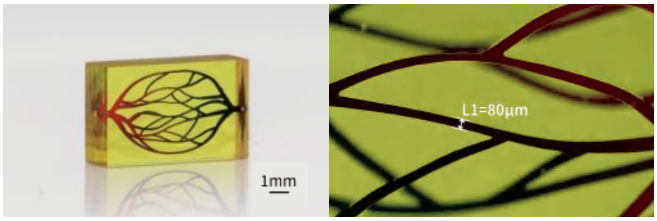
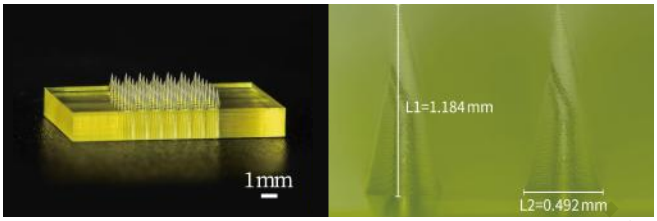
BMF
BOSTON MICRO FABRICATION

Your Reliable R&D Partner

Specifications





Blood Vessel Model (10 μm)

- Dimension: 10×6×2 mm^3
- Minimum diameter of channel: 80 μm
- Field: Healthcare, Biological, and Medical

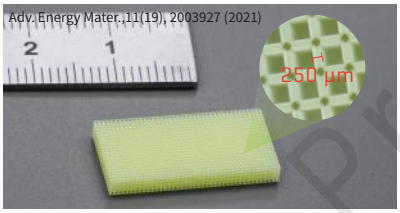
Glaucoma Stent (2 μm)

- Dimension: 1.347×2.647 mm^3
- Minimum diameter of hole: 40 μm
- Field: Clinical Operation

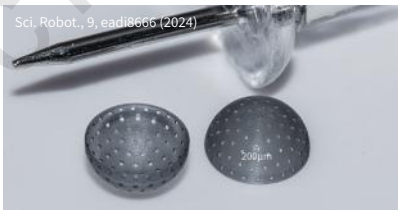
Hollow Needles (10 μm)

- Dimension: 15×9×2.7 mm^3
- Minimum diameter of channel: 80 μm
- Filed: Drug Delivery

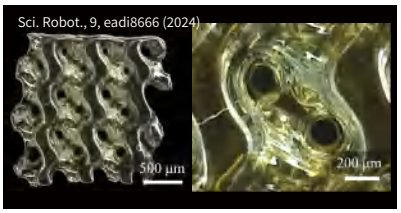
Applications



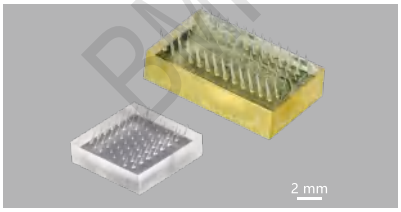
Complex 3D Lattice Structure



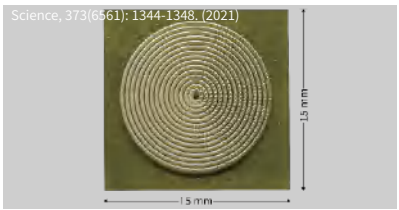
Pinhole Compound Eye



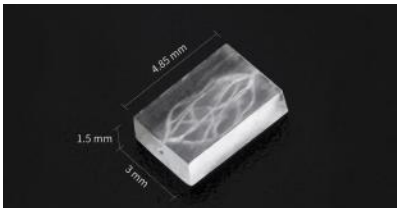
Triply-Periodic Minimal Surface Hydrogel Scaffold



Tilted Microneedle



Araucaria Leaf–Inspired Surface Ratchet Array



3D PDMS Blood Vessel Mimetic Scaffold

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ULTRA-HIGH RESOLUTION, ACCURACY, AND PRECISION

BMF BOSTON MICRO FABRICATION

microArch® S140

Maximum Build Size
94 x 52 x 45 (mm^3)

Printing Material
BIO / HTL Resin / Hydrogel

Specification

Light Source	UV LED [405 nm]
Printing Material	Photosensitive resin
Optical Resolution	10 μm
Layer Thickness	10~40 μm
Build Size	Mode 1: single exposure mode 19.2 mm[L] × 10.8 mm[W] ×45 mm[H]
	Mode 2: stitching exposure mode 94 mm[L] × 52 mm[W] × 45 mm[H]
	Mode 3: micro array mode 94 mm[L] × 52 mm[W] × 45 mm[H]
Input Data File Format	STL
External Dimensions	1000 mm[L] × 700 mm[W] × 1600 mm[H]
Dimensions	650 mm[L] × 650 mm[W] × 750 mm[H]
Total Weight	245 kg
Power Supply	100~240 V AC, 50/60 Hz, 2kW